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IN THE CLAIMS

(Previously presented) A method for ring-trip detection in a line card, 1. comprising:

using an analog-to-digital converter for processing voice signals;

using the analog-to-digital converter for DC feed control;

receiving a ringing control signal;

transmitting a ringing signal to a subscriber line in response to the ringing control signal;

receiving a portion of the ringing signal from the subscriber line;

converting the portion of the ringing signal to a digital signal using the digital-to-analog

converter; and

providing a ring-trip indication in response to the digital signal.

- (Original) The method of claim 1, wherein the ringing signal comprises an AC 2. signal.
- (Original) The method of claim 1, further including terminating the ringing signal 3. in response to the ring-trip indication.
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digital signal.

- 7. (Previously presented) An apparatus, comprising:
- first circuitry comprising an analog-to-digital converter that is employed for processing of voice signals and for DC feed control;
- a ringing generator capable providing a ringing signal to a subscriber line in response to receiving a ringing control signal;
- second circuitry capable of delivering the portion of the ringing signal to the analog-todigital converter of the first circuitry, wherein the analog-to-digital converter
 converts the portion of the ringing signal to a digital signal; and
 ring-trip detection logic capable of providing a ring-trip indication in response to the
- (Original) The apparatus of claim 7, further including third circuitry capable of terminating the ringing signal in response to the ring-trip indication.
 - 9. (Previously presented) An apparatus, comprising:
 - a feedback path having an input and output terminal, the feedback path including an analog-to-digital converter for processing voice signals;
 - a switch capable of coupling the input and output terminal of the feedback path in response to receiving a control signal; and
 - a ringing generator capable of providing a ringing signal to a subscriber line in response to the control signal.

10. (Previously presented) The apparatus of claim 9, further including circuitry capable of:

receiving at least a portion of the transmitted ringing signal from the subscriber line; and delivering the portion of the received ringing signal to the input terminal of the feedback path.

- 11. (Previously presented) The apparatus of claim 10, wherein the analog-to-digital converter of the feedback path converts the received ringing signal to a digital signal.
- 12. (Original) The apparatus of claim 11, further including ring-trip detection logic, wherein the ring-trip detection logic generates a ring-trip detection indication in response to the digital signal.
 - 13. (Previously presented) A line card, comprising:
 a subscriber line interface circuit capable of:
 receiving a voice signal from the subscriber line;
 delivering a ringing signal to the subscriber line; and

receiving at least a portion of the transmitted signal from the subscriber line; and a digital signal processor capable of:

processing the voice signal using an analog-to-digital converter; using the analog-to-digital converter for DC feed control; converting the portion of the ringing signal to a digital signal; and providing a ring-trip indication in response to the digital signal.

- 14. (Original) The line card of claim 13, wherein the subscriber line integrated circuit is a voltage subscriber line interface circuit.
- 15. (Original) The line card of claim 14, wherein the subscriber line interface circuit is capable of receiving a data signal in a frequency band above voice signals.
- 16. (Previously presented) The line card of claim 14, wherein the digital signal processor provides a ring-trip indication based on a power of the digital signal over a selected interval.
 - 17. (Original) The line card of claim 14, wherein the ringing signal is an AC signal.
- 18. (Previously presented) An apparatus for ring-trip detection, the apparatus comprising:

means for using an analog-to-digital converter for processing voice signals;

means for using the analog-to-digital converter for DC feed control;

means for receiving a ringing control signal;

means for transmitting a ringing signal to a subscriber line in response to the ringing

control signal;

means for receiving a portion of the ringing signal from the subscriber line;

means for converting the portion of the ringing signal to a digital signal using the analog-

to-digital converter; and

means for providing a ring-trip indication in response to the digital signal.

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(Previously presented) A method, comprising: 19.

processing a signal received over a subscriber line by one or more components in a first

path, the first path having an input terminal and an output terminal;

receiving a control signal;

coupling the input and the output terminal of the first path in response to receiving the control signal; and

providing a ringing signal to the subscriber line responsive to the control signal.

- (Previously presented) The method of claim 19, wherein the first path is a voice 20. path, and wherein processing the signal comprises processing a voice signal received over the subscriber line.
- (Previously presented) The method of claim 19, wherein the first path is a loop 21. supervision path, and wherein processing the signal comprises processing a DC signal received over the subscriber line.
 - (Previously presented) An apparatus, comprising: 22.

means for processing a signal received over a subscriber line by one or more components

in a first path, the first path having an input terminal and an output terminal;

means for receiving a control signal;

means for coupling the input and the output terminal of the first path in response to receiving the control signal; and

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means for providing a ringing signal to the subscriber line responsive to the control signal.